



FortiWLC[™] Wireless Controllers



FortiWLC Wireless Controllers

FWC-50D, 200D and 500D

End-to-end control over the wireless LAN for your organization

The FortiWLC controller series optimizes traffic across our infrastructure wireless access points and client devices to support high density, high performance and predictability while addressing mission-critical enterprise demands for wireless connectivity. Each FortiWLC controller supports the performance requirements of the latest 802.11ac Wave II standard by providing double the performance of our existing Infrastructure wireless controllers. These high performance controllers also include support for Virtual Cell/Single Channel technology. It works with relevant Fortinet's infrastructure access points to deliver data, voice, and video applications for small to large enterprises.

Powered by Fortinet's System Director operating system, the FortiWLC creates a unified wireless LAN environment designed to deliver seamless mobility and superior reliability. System Director optimizes client distribution and channel utilization in both single- and multichannel deployments, maximizing efficiency to make the most of available wireless spectrum. Radio frequency virtualization simplifies deployment and allows easy capacity expansion as your needs evolve.

The controller manages authentication and encryption of our enterprise class infrastructure access points. You can easily extend the FortiWLC capabilities with optional software for policy enforcement and wireless intrusion prevention. As a Fortinet wireless controller, it integrates with the network management suite, which combines with System Director to bring application visibility, intelligent management and resilient wireless services to your network. It also integrates with Fortinet Connect as part of a complete BYOD and guest access solution.

Features

- Powered by System Director OS, and supports 802.11ac Wave II access points
- Radio frequency virtualization supported by patented Virtual Cell technology
- Infrastructure-controlled, zero-loss handoffs and traffic load balancing
- Multilayered wireless LAN security: 802.1X authentication, encryption, firewall, and optional wireless IPS/IDS
- Seamless interoperability with multi-vendor network infrastructure

Benefits

- Delivers highly predictable, resilient wireless services in both single- and multi-channel deployments
- Simplifies deployment and capacity expansion for your wireless network
- Offers seamless wireless mobility with superior roaming reliability
- Protects sensitive data and aids in compliance
- Supports existing technology investment





SPECIFICATIONS

	FWC-50D	FWC-200D	FWC-500D	
Application	Small enterprise, remote offices	Mid enterprise	Large enterprise	
Hardware				
10/100/1000 Interfaces (Copper, RJ-45)	4	4	4	
GE SFP Port	_	<u> </u>	4	
10 GE SFP+ Port	_	_	2	
Console Port (RJ45, serial)	1	1	1	
Internal Storage	60 GB SSD	120 GB SSD	2x 240 GB SSD	
Capacity				
Maximum Access Points	50	200	500	
Maximum Clients	1,250	2,500	6,250	
Security				
Access Control	WEP, WPA-PSK, WPA-TKIP, WPA2-AES, 802.11i, 802.1X (EAP-TLS, EAP-TTLS, PEAP, LEAP, EAP-FAST, EAP-SIM, EAP-AKA, and EAP-MD5) 802.1X and captive portal authentication against local database on the controller, RADIUS, and Active Directory RADIUS-assisted per-user and per-ESSID access control via MAC filtering			
Policy	Per-user firewall with fine-grained policy management: admission control, packet prioritization, QoS flows, packet drop policy, bandwidth scaling, filter ID, network protocol, and source port filtering. System-configured or per-user, RADIUS-configured firewall policies			
Management & Networking				
Zero Configuration	Access points automatically discover controllers and download configuration settings for zero-touch, plug-and-play deployment			
System Management	Upgrades and management using System Director/Network Manager, support for SNMP, centralized WLAN security policies with multiple ESS profiles, VLAN-specific administrative/security policies			
Intelligent RF Management	Coordination of access points with load balancing for predictable performance			
VLAN Support	IEEE 802.1Q VLAN tagging, GRE Tunneling			
QoS	WMM support, dynamic WMM rate adaptation, configurable QoS rules per user and application			
Physical				
Mounting	rack mount (mounting kit required; included)	rack mount (mounting kit required; included)	rack mount (mounting kit required; included)	
Height x Width x Length (inches)	17.32 x 1.73 x 8.62	17.01 x 1.73 x 9.8	17.24 x 1.73 x 16.18	
Height x Width x Length (mm)	440 x 44 x 219	432 x 44 x 249	438 x 44 x 411	
Weight	6.39 lbs (2.9 kg)	12.79 lbs (5.8 kg)	16.98 lbs (7.7 kg)	
Form Factor	1 RU	1 RU	1 RU	
Environment & Power				
Power Source	100–240V AC, 60–50 Hz, 65 W openframe single PSU	100–240V AC, 50–60Hz, 250 W single PSU	100-240V AC, 60-50 Hz, 300 W Redundant PSU	
Power Consumption (Average / Maximum)	31 W / 24 W	105 W / 76 W	197 W / 141 W	
Current (Maximum)	100V/1.5A, 240V/1.5A	100V/4A, 240V/2A	100V/5A, 240V/3A	
Heat Dissipation	106 BTU/h	358 BTU/h	672 BTU/h	
Operating Temperature	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	
Storage Temperature	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)	
Humidity	5–95% (non-condensing)	5–95% (non-condensing)	5–95% (non-condensing)	
Compliance				
Regulatory Approval	FCC Part 15B Class A, UL 60950-1, CSA C22.2 No. 6095	0-1-07, EN 60950-1, IEC 60950-1, ICES-003 Class	B, EN55022 Class B, EN55024, VCCI Class B, RCM, BSM	
Certification	RoHS, REACH, WEEE			







FortiWLC 50D FortiWLC 200D FortiWLC 500D

2 www.fortinet.com

ORDER INFORMATION

Product	SKU	Description
FortiWLC 50D Wireless Controller	FWC-50D-0-XX	Wireless Controller for International. Platform supports up to 50 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy, US/Canada power cord will be provided if no country defined. Please reference the Accessory list for available country-specific power cords.
	FWC-50D-0-US	Wireless Controller for U.S. Platform supports up to 50 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy, US/Canada power cord will be provided.
FortiWLC 200D Wireless Controller	FWC-200D-0-XX	Wireless Controller for International. Platform supports up to 200 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy, US/Canada power cord will be provided if no country defined. Please reference the Accessory list for available country-specific power cords.
	FWC-200D-0-US	Wireless Controller for U.S. Platform supports up to 200 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy, US/Canada power cord will be provided.
FortiWLC 500D Wireless Controller	FWC-500D-0-XX	Wireless Controller for International. Platform supports up to 500 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy, US/Canada power cord will be provided if no country defined. Please reference the Accessory list for available country-specific power cords.
	FWC-500D-0-US	Wireless Controller for U.S. Platform supports up to 500 APs. Includes System Director software. Supports N+1 Wireless Controller Redundancy, US/Canada power cord will be provided.



GLOBAL HEADQUARTERS Fortinet Inc. 899 Kifer Road Sunnyvale, CA 94086 United States Tel: +1.408.235.7700 www.fortinet.com/sales

EMEA SALES OFFICE 905 rue Albert Einstein Valbonne 06560 Alpes-Maritimes, France Tel: +33.4.8987.0500

APAC SALES OFFICE 300 Beach Road 20-01 The Concourse Singapore 199555 Tel: +65.6395.2788

LATIN AMERICA SALES OFFICE Sawgrass Lakes Center 13450 W. Sunrise Blvd., Suite 430 Sunrise, FL 33323 United States Tel: +1.954.368.9990

Copyright® 2016 Fortinet, Inc. All rights reserved. Forticate®, FortiCare® and other marks are registered trademarks of Fortinet, Inc., and other Fortinet names herein may also be registered and/or common law trademarks of Fortinet. All other product or company names may be trademarks of their respective owners. Performance and other metrics contained herein were attained in internal lab tests under ideal conditions, and actual performance and other results may vary and may be significantly liss effective than the metrics stated herein. Notivork variables, different network environments and other conditions may negatively affect performance results and other metrics stated herein. Notivirish environments and other conditions may negatively affect performance results and other metrics stated herein. Notivirish environments and other conditions and warranties, whether express or implied, except to the extent Fortinet enters a binding written contract size and insuranties, whether express varrants that the identified product will perform ance metrics expressly identified in such binding on written contract and any such commitment shall be limited by the disclaimers in this paragraph and other limitations in the written contract. For absolute dairly, any such warranty will be limited to performance in the same ideal conditions as in Fortinet's internal lab tests, and in no event will Fortinet be responsible for events or issues that are outside of its reasonable control. Notwithstanding anything to the contrary, Fortinet disclaims in full any covenants, representations, and guaranties pursuant hereto, whether express or implied. Fortinet reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.